

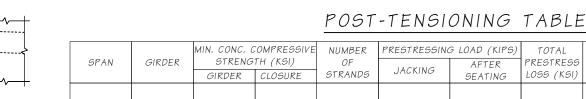
## PRECAST LONGITUDINAL HALF-SECTION

SHOWING POST-TENSIONING CABLE PATHS # MEASURED BEFORE POST-TENSIONING.

- 2" CLR. EXCEPT FOR SPLAYING AT END DIAPHRAGMS (TYP.) C.G. OF STRANDS -DIMENSION SHOWN ON POST-TENSIONING <u>--</u>\_ PROFILE 4" HEAT SHRINK SLEEVE - END OF

DUCT SPLICE DETAIL

PRECAST SEGMENTS -



SPAN	GIRDER	MIN. CONC. COMPRESSIVE			PRESTRESSING LOAD (KIPS)						TEMPORARY STRANDS		
		STRENG GIRDER	TH (KSI) CLOSURE	OF STRANDS	JACKING	AFTER SEATING	PRESTRESS LOSS (KSI)	E1 (IN.)	E2 (IN.)	E3 (IN.)	NUMBER OF STRANDS	JACKING FORCE (KIPS)	

POST-TENSIONING NOTES

GIRDER

DUCTS

TENDON IN SAG CURVE

STRAND LOCATION DETAIL

POST-TENSIONING STRAND PATTERN AT & SPAN

- 1. THE MINIMUM COMPRESSIVE STRENGTH OF THE CAST-IN-PLACE CONCRETE AT THE CLOSURE AT THE TIME OF POST-TENSIONING SHALL BE AS SHOWN IN POST-TENSIONING
- 2. THE MAXIMUM OUTSIDE DIAMETER OF THE DUCT SHALL BE ??? INCHES. THE AREA OF THE DUCT SHALL BE AT LEAST 2.5 TIMES THE NET AREA OF THE PRESTRESSING STEEL
- 3. THE DESIGN IS BASED ON [1/2" Ø OR O.6" Ø] LOW RELAXATION STRANDS WITH AN ANCHOR SET OF %", A CURVATURE FRICTION COEFFICIENT,  $\mu$  = 0.20 AND A WOBBLE FRICTION COEFFICIENT, k = 0.0002/FT. THE ACTUAL ANCHOR SET AND JACKING FORCE USED BY THE CONTRACTOR SHALL BE SPECIFIED IN THE SHOP PLANS AND INCLUDED IN THE TRANSFER FORCE CALCULATIONS.
- 4. THE DESIGN IS BASED ON THE ESTIMATED PRESTRESS LOSS OF POST-TENSIONING STRANDS SHOWN IN THE POST-TENSIONING TABLE DUE TO STEEL RELAXATION, ELASTIC SHORTENING CREEP AND SHRINKAGE OF CONCRETE.

- 5. THE CONTRACTOR SHALL SUBMIT THE STRESSING SEQUENCE AND ELONGATION CALCULATIONS TO THE ENGINEER FOR APPROVAL. ALL LOSSES DUE TO TENDON VERTICAL AND HORIZONTAL CURVATURE MUST BE INCLUDED IN ELONGATION CALCULATIONS. THE STRESSING SEQUENCE SHALL MEET THE FOLLOWING CRITERIA:
  - A. THE PRESTRESSING FORCE SHALL BE DISTRIBUTED WITH AN APPROXIMATELY EQUAL AMOUNT IN EACH WEB AND SHALL BE PLACED SYMMETRICALLY ABOUT THE CENTERLINE OF THE BRIDGE
  - B. NO MORE THAN ONE-HALF OF THE PRESTRESSING FORCE IN ANY WEB MAY BE STRESSED BEFORE AN EQUAL FORCE IS STRESSED IN THE ADJACENT WEBS. AT NO TIME DURING STRESSING OPERATION WILL MORE THAN 1/6 OF THE TOTAL PRESTRESSING FORCE IS APPLIED ECCENTRICALLY ABOUT THE CENTERLINE OF THE
- 6. ALL TENDONS SHALL BE STRESSED FROM ONE END.

SEE "DUCT SPLICE DETAIL"

7. TEMPORARY STRANDS SHALL BE POST-TENSIONED IN ACCORDANCE WITH SECTION 6-02.3(25)L OF THE STANDARD SPECIFICATIONS. TEMPORARY STRANDS MAY BE POST-TENSIONED ON THE SAME DAY THE PRETENSIONING IS RELEASED INTO THE GIRDER.

5	Bridge Design Engr,	M:\STANDARDS\Girders\PT Wide Flange\WF95PTG1.MAN									
7	Supervisor					REGION NO.	STATE	FED, AID PROJ. NO.	SHEET NO.	TOTAL SHEETS	
2	Designed By										
	Checked By					10	WASH,				
-	Detailed By					TOP N	II IMBED				
4	Bridge Projects Engr.					JOB NUMBER					
)	Prelim. Plan By								i l	1	
	Architect/Specialist	DATE	REVISION	BY	APP'D						

**BRIDGE** AND **STRUCTURES** OFFICE



**STANDARD** PRESTRESSED CONCRETE GIRDERS WF95PTG SPLICED GIRDER DETAILS 1 OF 5

2 G2 #5, G3 #5, 2 G7 #3 ~ 5 SPA. @ 4" = 1'-8"

·6 G4 #5

G5 #5

·2 G8 #6

-1'-6" MIN. LAP SPLICE (TYP.)

2'-0" CLOSURE

CLOSURE DETAIL

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